

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number
WO 2004/113502 A2

- | | | |
|---|---|---|
| (51) International Patent Classification ⁷ : | C12N | (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW. |
| (21) International Application Number: | PCT/US2004/019286 | |
| (22) International Filing Date: | 17 June 2004 (17.06.2004) | |
| (25) Filing Language: | English | |
| (26) Publication Language: | English | |
| (30) Priority Data: | | |
| 60/480,013 | 20 June 2003 (20.06.2003) | US |
| 60/517,369 | 5 November 2003 (05.11.2003) | US |
| (71) Applicant (for all designated States except US): | AVALON PHARMACEUTICALS, INC. [US/US]; 20358 Seneca Meadows Parkway, Germantown, MD 20876 (US). | |
| (72) Inventors; and | | |
| (75) Inventors/Applicants (for US only): | YOUNG, Paul, E. [US/US]; 122 Beckwith Street, Gaithersburg, MD 20870 (US). ZONG, Qiu [US/US]; 19217 Ranworth Drive, Germantown, MD 20874 (US). HORRIGAN, Stephen, K. [US/US]; 1895 Milboro Drive, Potomac, MD 20854 (US). | |
| (74) Agent: | GRANT, Alan, J.; Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein, 5 Becker Farm Road, Roseland, NJ 07068 (US). | |

- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/113502 A2

(54) Title: IDENTIFICATION OF THERAPEUTIC AGENTS USING GENETIC FINGERPRINTING

(57) Abstract: Methods for identifying compounds having similar biological activity based on similarity in genetic expression profile in cells contacted with one or more of said compounds, along with specifically identified compounds, are disclosed.